

## AMENDMENTS TO THE CLAIMS

Please amend Claims 1-30 as follows.

### **LISTING OF CLAIMS**

1. (currently amended) An air conditioning system for a vehicle having a passenger compartment, the system comprising:

a case defining an air passage through which air flows into the passenger compartment;

a cooling heat exchanger in which refrigerant of a refrigerant cycle flows, the cooling heat exchanger being disposed in the air passage;

a heating heat exchanger disposed at a downstream side of the cooling heat exchanger in an air flow direction;

an air mixing door disposed to adjust a flow amount ratio between air passing through the heating heat exchanger and air bypassing the heating heat exchanger; and

a ~~self-contained~~ cold accumulator disposed in the case between the cooling heat exchanger and the air mixing door, the cold accumulator having a cold accumulating material ~~sealed therein~~ that is sealed only within the cold accumulator.

2. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising:

the case ~~[[has]]~~ having a bypass passage through which air bypasses the cooling heat exchanger and the cold accumulator, ~~the system further comprising;~~ and

a bypass door ~~which is~~ disposed to adjust a flow amount of air passing through the bypass passage.

3. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising the cold accumulator and the cooling heat exchanger ~~[[are]]~~ being integrally disposed to form an integrated structure.

4. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a plurality of tubes each of which is made of a metal; and

the cold accumulating material ~~[[is]]~~ being sealed in the tubes.

5. (currently amended) The air conditioning system according to Claim 4, ~~wherein~~ further comprising the tubes of the cold accumulator ~~[[are]]~~ being stacked adjacent each other to define a wave shaped cold air passage between adjacent tubes ~~in such a manner that cold air from the cooling heat exchanger passes through the cold air passage in a wave shape.~~

6. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a tube formed in a serpentine shape to form a plurality of folded tube portions; and

the cold accumulating material ~~[[is]]~~ being sealed in the tube.

7. (currently amended) The air conditioning system according to Claim 6, wherein further comprising the cold accumulator further ~~[[has]]~~ having a fin disposed between the folded tube portions.

8. (currently amended) The air conditioning system according to Claim 6, wherein further comprising a plurality of the tubes, each of which is formed in a serpentine shape, ~~[[are]]~~ being disposed to be connected integrally.

9. (currently amended) The air conditioning system according to Claim 1, wherein further comprising the cold accumulator ~~[[has]]~~ having a plurality of tubes filled with the cold accumulating material, and a fixing member disposed to fix both ends of each of the tubes.

10. (currently amended) The air conditioning system according to Claim 9, wherein further comprising:

each of the tubes ~~[[has]]~~ having a flat shape in cross-section;

the tubes ~~[[are]]~~ being arranged so that a major direction of the flat shape of each tube is along the air flow direction in the cold accumulator;

the fixing member ~~[[has]]~~ having a plurality of recesses arranged to correspond to the arrangement of the tubes; and

at least one side end of each of the tubes ~~[[are]]~~ being fitted into a respective recess of the fixing member.

11. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a first cold accumulating portion and a second cold accumulating portion; and

the cold accumulating material ~~includes~~ including a first material sealed in the first cold accumulating portion and a second material sealed in the second cold accumulating portion.

12. (currently amended) The air conditioning system according to Claim 11, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having therein an inner partition member; and

the first cold accumulating portion and the second cold accumulating portion ~~[[are]]~~ being integrally disposed to be defined by the inner partition member.

13. (currently amended) The air conditioning system according to Claim 11, ~~wherein~~ further comprising:

the first material ~~[[has]]~~ having a melting point higher than that of the second material; and

the first cold accumulating portion ~~[[is]]~~ being disposed at an upstream side of the second cold accumulating portion in the air flow direction.

14. (currently amended) The air conditioning system according to Claim 1, ~~wherein~~ further comprising:

the cooling heat exchanger ~~[[is]]~~ being an evaporator of the refrigerant cycle ~~having a compressor that is driven by an engine for powering the vehicle, the engine being stopped when traveling of the vehicle is unnecessary.~~

15. (currently amended) The air conditioning system according to Claim 1, further comprising:

a control unit for controlling temperature of air to be blown into the passenger compartment, ~~wherein~~;

the control unit ~~controls~~ controlling temperature of the cooling heat exchanger to a target cooling temperature;

the control unit ~~[[sets]]~~ setting the target cooling temperature at an initial target temperature in a cold accumulation mode; and

when the control unit determines a finish of the cold accumulation mode, the control unit sets the target cooling temperature to a temperature that is higher than the initial target temperature.

16. (currently amended) An air conditioning system for a vehicle having a passenger compartment, the system comprising:

a case defining an air passage through which air flows into the passenger compartment;

a cooling heat exchanger in which refrigerant of a refrigerant cycle flows, the cooling heat exchanger being disposed in the air passage;

a heating heat exchanger disposed at a downstream side of the cooling heat exchanger in an air flow direction;

a heating adjustment member which is disposed to adjust a heating capacity of the heating heat exchanger; and

a ~~self-contained~~ cold accumulator disposed in the case between a the cooling heat exchanger and the heating heat exchanger, the cold accumulator having a cold accumulating material ~~sealed therein~~ that is sealed only in the cold accumulator.

17. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising:

the case ~~[[has]]~~ having a bypass passage through which air bypasses the cooling heat exchanger and the cold accumulator, ~~the system further comprising:~~ and

a bypass door ~~which is~~ disposed to adjust a flow amount of air passing through the bypass passage.

18. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising the cold accumulator and the cooling heat exchanger ~~[[are]]~~ being integrally disposed to form an integrated structure.

19. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a plurality of tubes each of which is made of a metal; and

the cold accumulating material ~~[[is]]~~ being sealed in the tubes.

20. (currently amended) The air conditioning system according to Claim 19, ~~wherein~~ further comprising the tubes of the cold accumulator ~~[[are]]~~ being stacked adjacent each other to define a wave shaped cold air passage between adjacent tubes ~~in such a manner that cold air from the cooling heat exchanger passes through the cold air passage in a wave shape.~~

21. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a tube formed in a serpentine shape to form a plurality of folded tube portions; and

the cold accumulating material ~~[[is]]~~ being sealed in the tube.

22. (currently amended) The air conditioning system according to Claim 21, ~~wherein~~ further comprising the cold accumulator ~~further has~~ having a fin disposed between the folded tube portions.

23. (currently amended) The air conditioning system according to Claim 21, ~~wherein~~ further comprising a plurality of the tubes, each of which is formed in a serpentine shape, ~~[[are]]~~ being disposed to be connected integrally.

24. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising the cold accumulator ~~[[has]]~~ having a plurality of tubes filled with the cold accumulating material, and a fixing member disposed to fix both ends of each of the tubes.

25. (currently amended) The air conditioning system according to Claim 24, ~~wherein~~ further comprising:

each of the tubes ~~[[has]]~~ having a flat shape in cross-section;

the tubes ~~[[are]]~~ being arranged so that a major direction of the flat shape of each tube is along the air flow direction in the cold accumulator;

the fixing member ~~[[has]]~~ having a plurality of recesses arranged to correspond to the arrangement of the tubes; and

at least one side end of each of the tubes ~~[[are]]~~ being fitted into respective recess of the fixing member.

26. (currently amended) The air conditioning system according to Claim 16, ~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having a first cold accumulating portion and a second cold accumulating portion; and

the cold accumulating material ~~includes~~ including a first material sealed in the first cold accumulating portion and a second material sealed in the second cold accumulating portion.



27. (currently amended) The air conditioning system according to Claim 26,  
~~wherein~~ further comprising:

the cold accumulator ~~[[has]]~~ having therein an inner partition member; and  
the first cold accumulating portion and the second cold accumulating  
portion ~~[[are]]~~ being integrally disposed to be defined by the inner partition member.

28. (currently amended) The air conditioning system according to Claim 26,  
~~wherein~~ further comprising:

the first material ~~[[has]]~~ having a melting point higher than that of the  
second material; and

the first cold accumulating portion ~~[[is]]~~ being disposed at an upstream  
side of the second cold accumulating portion in the air flow direction.

29. (currently amended) The air conditioning system according to Claim 16,  
~~wherein~~ further comprising:

the cooling heat exchanger ~~[[is]]~~ being an evaporator of the refrigerant  
cycle ~~having a compressor that is driven by an engine for powering the vehicle, the  
engine being stopped when traveling of the vehicle is unnecessary.~~

30. (currently amended) The air conditioning system according to Claim 16,  
further comprising:

a control unit for controlling temperature of air to be blown into the passenger compartment, ~~wherein;~~ and

the control unit ~~controls~~ controlling temperature of the cooling heat exchanger to a target cooling temperature;

the control unit sets the target cooling temperature at an initial target temperature in a cold accumulation mode; and

when the control unit determines a finish of the cold accumulation mode, the control unit sets the target cooling temperature to a temperature that is higher than the initial target temperature.

31.-40. (cancelled)